

Application No.: 09/575,410  
Amendment

AMENDMENTS TO THE CLAIMS

1. (Currently amended): A method of on-line authentication, comprising the steps of:  
receiving through a computer network a communication indicating that authentication is needed;  
obtaining a first number that indicates how many fingerprints will be requested for authentication;  
randomly selecting which fingerprints will be requested by using a fingerprint numbering scheme designated by a user whose fingerprints will be requested, wherein the fingerprint numbering scheme includes fingerprint designators that are assigned by the user;  
sending through the computer network one or more requests for entry of the randomly selected fingerprints;  
receiving fingerprint data through the computer network in response to the one or more requests for entry of the randomly selected fingerprints; and  
comparing the received fingerprint data to fingerprint data stored in a database.

2. (Original): A method in accordance with claim 1, wherein the step of obtaining a first number comprises the step of:  
randomly selecting the first number.

3. (Original): A method in accordance with claim 1, wherein the step of obtaining a first number comprises the step of:  
retrieving the first number from the database.

4. (Original): A method in accordance with claim 1,

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wherein the first number is equal to or less than a total number of fingerprints stored in the database for a particular user.

5. (Original): A method in accordance with claim 1, wherein the step of randomly selecting which fingerprints will be requested comprises the step of:

randomly selecting fingerprints from a total number of fingerprints stored in the database for a particular user.

6. (Original): A method in accordance with claim 1, further comprising the step of:

detecting through the computer network whether a client computer has a fingerprint reader.

7. (Original): A method in accordance with claim 1, further comprising the steps of:

receiving set-up data for a particular user through the computer network; and

storing the received set-up data in the database.

8. (Currently amended): A method of setting up on-line authentication, comprising the steps of:

sending through the computer network a request for a total number that indicates how many fingerprints to hold for authentication;

receiving through the computer network the requested total number;

sending through the computer network one or more requests for entry of fingerprints;

receiving fingerprint data through the computer network in response to the one or more requests for entry of

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fingerprints;

assigning a number to each entered fingerprint that is consistent with a number intended by a user who entered the fingerprints such that fingerprint designators are assigned by the user; and

storing the received fingerprint data and assigned numbers in a database.

9. (Original): A method in accordance with claim 8, further comprising the step of:

sending through the computer network a request for a first number that indicates how many fingerprints will be requested for each authentication.

10. (Original): A method in accordance with claim 8, further comprising the step of:

receiving through the computer network a first number that indicates how many fingerprints are to be requested for each authentication, wherein the first number is greater than or equal to zero and less than or equal to the total number.

11. (Original): A method in accordance with claim 8, further comprising the step of:

receiving through the computer network an indication that a number is to be randomly selected to indicate how many fingerprints will be requested for each authentication.

12. (Original): A method in accordance with claim 8, further comprising the step of:

sending through the computer network a request for whether username and password authentication should be enabled

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for client computers not having a fingerprint reader.

13. (Original): A method in accordance with claim 8,  
further comprising the step of:

receiving through the computer network an indication  
that username and password authentication should be enabled  
for client computers not having a fingerprint reader.

14. (Currently amended): A system for providing on-line  
authentication, comprising:

a database configured to store fingerprint data and  
user set-up data;

a communication device configured to provide a  
connection to a computer network; and

a processor and a memory configured to receive  
through the computer network a communication indicating that  
authentication is needed, obtain a first number that indicates  
how many fingerprints will be requested for authentication,  
randomly select which fingerprints will be requested by using  
a fingerprint numbering scheme designated by a user whose  
fingerprints will be requested, send through the computer  
network one or more requests for entry of the randomly  
selected fingerprints, receive fingerprint data through the  
computer network in response to the one or more requests for  
entry of the randomly selected fingerprints, and compare the  
received fingerprint data to fingerprint data stored in the  
database;

wherein the fingerprint numbering scheme includes  
fingerprint designators that are assigned by the user.

15. (Original): A system in accordance with claim 14,  
wherein the processor and the memory are further configured to

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obtain the first number by randomly selecting the first number.

16. (Original): A system in accordance with claim 14, wherein the processor and the memory are further configured to obtain the first number by retrieving the first number from the database.

17. (Original): A system in accordance with claim 14, wherein the first number is equal to or less than a total number of fingerprints stored in the database for a particular user.

18. (Original): A system in accordance with claim 14, wherein the processor and the memory are further configured to receive set-up data for a particular user through the computer network and store the set-up data in the database.

19. (Original): A system in accordance with claim 14, wherein the processor and the memory are further configured to send through the computer network a request for a total number that indicates how many fingerprints to hold for authentication.

20. (Original): A system in accordance with claim 14, wherein the processor and the memory are further configured to receive fingerprint data through the computer network in response to one or more requests for entry of fingerprints.

21. (Previously presented): A system in accordance with claim 20, wherein the processor and the memory are further configured to assign a number to each entered fingerprint that

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is consistent with the fingerprint numbering scheme designated by the user who entered the fingerprints, and store the received fingerprint data and assigned numbers in the database.

22. (Previously presented): A method in accordance with claim 1, wherein the fingerprint data stored in the database comprises more than ten fingerprints stored for the user.

23. (Previously presented): A method in accordance with claim 8, wherein the requested total number is greater than ten.

24. (Previously presented): A system in accordance with claim 14, wherein the fingerprint data stored in the database comprises more than ten fingerprints stored for the user.